CLAIMS

- 1. A process for producing a petroleum resin which comprises subjecting a cyclopentadiene based compound and a vinyl-substituted aromatic compound substantially free from a high molecular weight substance to copolymerization reaction in the presence of a solvent.
- 2. A process for producing a hydrogenated petroleum resin which comprises subjecting a cyclopentadiene based compound and a vinyl-substituted aromatic compound substantially free from a high molecular weight substance to copolymerization reaction in the presence of a solvent and thereafter to hydrogenation reaction.
- 3. A hydrogenated petroleum resin which is produced by the process as set forth in Claim 2, and which has a maximum molecular weight as determined by gel permeation chromatography (GPC) being 18000 or lower.
- 4. Ahot melt adhesive composition which comprises the hydrogenated petroleum resin as set forth in Claim 3.